CLAIMS

What is claimed:

1. A device for fixing and adjusting a member to be supported, comprising:

a support base;

two triangular levers, each of the said levers comprising two arms disposed in a triangle and connected together at one of the vertices of the triangle, each of the said levers being articulated on said support base at its respective vertex, a first one of the two arms of each lever being extendable and connected at its free end to means of fixing support to said member; and

adjustment means mounted on said support base and arranged to make the second arm of each lever pivot in the plane of said lever.

- 2. The device according to Claim 1, wherein each of said levers is articulated on said support base about an axis substantially perpendicular to the plane of said lever.
- 3. The device according to Claim 2, wherein each of said levers is articulated on said support base by means of a blade substantially perpendicular to the plane of the respective lever.
- 4. The device according to Claim 1, wherein said two levers are substantially in the same plane.
- 5. The device according to Claim 1, wherein the first arm of each lever is articulated on the second arm at the respective vertex of the lever.
- 6. The device according to Claim 1, wherein the first arm of each lever is articulated on said fixing means.
- 7. The device according to Claim 5, wherein the articulations are articulations of the swivel type.

- 8. The device according to Claim 7, wherein each of the articulations comprises at least a first blade and a second blade, said first blade is substantially in a plane of the respective lever and said second blade is substantially perpendicular to the plane.
- 9. The device according to Claim 8, wherein said second blade is in a plane substantially parallel to the first arm of the respective lever.
- 10. The device according to Claim 8, wherein each of said levers is articulated on the base means of a blade substantially perpendicular to the plane of the respective layer, wherein said first blade, by which the lever is articulated on the base, is in a plane substantially parallel to that of said second blade.
- 11. The device according to Claim 3, wherein the said blades are produced in a single piece with the respective lever.
- 12. The device according to Claim 1, wherein the said adjustment means are means of adjustment without play.

- 13. The device according to Claim 12, wherein said adjustment means comprise a thrust finger actuated by a motor) and acting on said second arm of the respective lever counter to the action of the elastic means.
- 14. The device according to Claim 13, wherein said motor is a piezoelectric actuator.
 - 15. The device according to Claim 13, wherein said motor is removable.
- 16. The device of claim 1, further comprising: three devices each having said two triangular levers and said adjustment means, wherein a respective fixing means of each device is arranged so as to be fixed to the member at three distinct points.
- 17. The device according to Claim 16, wherein said three devices are disposed about a central axis in rotation symmetry of substantially 120°.

18. A supporting device comprising:

a support;

a plurality of levers;

each of said levers having at least a first arm and a second arm substantially disposed in a triangle and connected together at a selected vertex of the triangle;

each of said levers being articulated on said support at its respective vertex,

said first arm being selectively extendable; and

an adjuster extending from said support base and operable to allow said second arm of each of said levers to rotate along a selected plane.

19. An apparatus comprising:

an optical member;

a base;

at least three devices, wherein each device comprises:

(a) a plurality of levers;

each of said levers having at least a first member and a second member substantially oriented in a triangular manner and connected together substantially at a selected vertex of the triangle;

each of said levers being articulated on said base substantially at its respective vertex,

said first member being selectively extendable and operably connected to the optical member; and

- (b) an adjustment assembly mounted on said base and arranged to make said second member of each of said levers move along a selected plane; and
- (c) a fixing assembly operably interconnected to said device:

wherein said fixing assembly of each of said three devices is arranged so as to be fixed to the optical member at at least three distinct points.